

Title (en)

Liquid discharge head, head cartridge using the liquid discharge head and liquid discharge apparatus

Title (de)

Flüssigkeitsausstosskopf, diesen Kopf verwendende Kassette und Flüssigkeitsausstossvorrichtung

Title (fr)

Tête d'éjection de liquide, cartouche utilisant cette tête et appareil d'éjection de liquide

Publication

**EP 0819540 A2 19980121 (EN)**

Application

**EP 97305131 A 19970711**

Priority

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- JP 18357796 A 19960712
- JP 18375096 A 19960712
- JP 17999897 A 19970704

Abstract (en)

A liquid discharge head comprises discharge ports for discharging the liquid, a bubble producing area for producing an air bubble in the liquid of liquid flow channels, and a movable member, which is disposed toward the bubble producing area, and displaceable between a first position and a second position farther away from the bubble producing area than the first position, the liquid discharge head discharging the liquid in such a manner that the movable member is displaced from the first position to the second position by a pressure due to a bubble produced in the bubble producing area, and the bubble is more greatly expanded downstream than upstream in a direction toward the discharge port, due to the displacement of the movable member. The head has a check valve disposed in a liquid supply passage leading to the liquid flow channels.

<IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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